Specifications

Input Video Signal:

.. Analog: .5 to 1.2 volts p-p
.. ECL: .8 to 1 volt p-p

Input Sync Signal:

.. Sync on Green (RGsB)
.. Composite Sync (RGBS)
.. Separate H&V (RGBHV)

Output Signal:

.. Video: .5 to 1 volt p-p

Frequency Compatibility:

.. Horizontal: 15-100 kHz (automatic)
.. Vertical: 30-170 Hz (automatic)

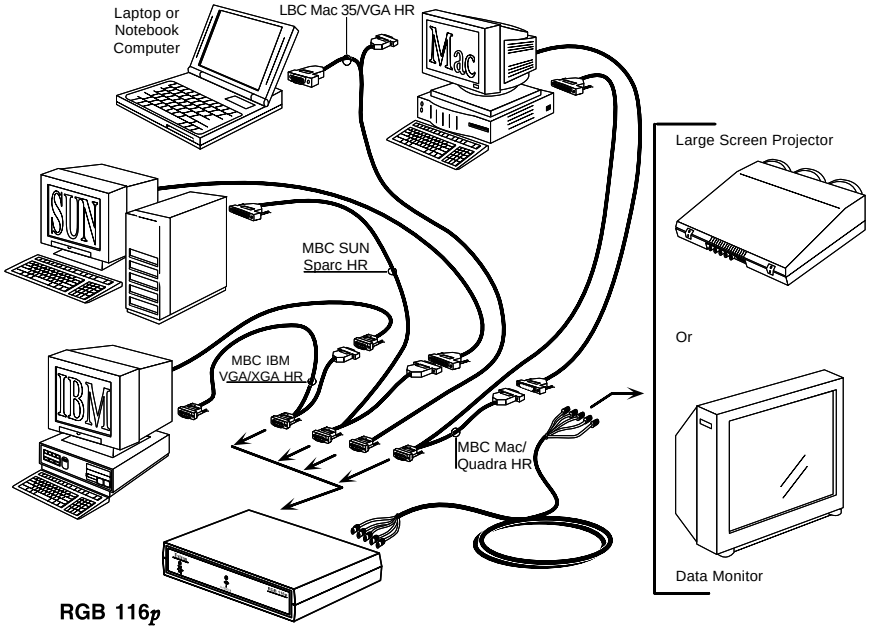
RGB Video Bandwidth:

.. 150 MHz (2.1 nS Rise Time)

Wall Mount Power Supply:

.. 115 VAC, 60 Hz to 15 VDC/900 mA

Below is an example of how an RGB 116*p* may be connected to a computer, through an MBC cable.



RGB 116*p*

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79-04
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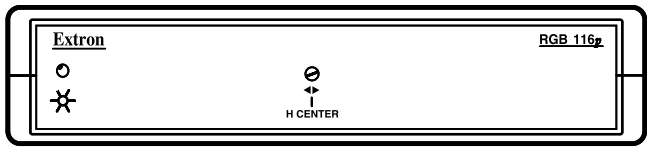
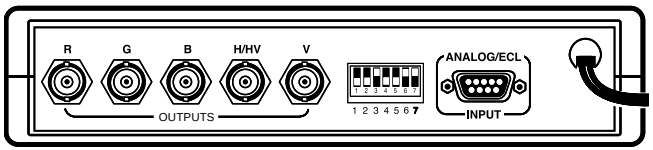
Rev. B

Extron Electronics
INTERFACING, SWITCHING AND DISTRIBUTION

User's Guide





RGB 116*p* Interface

(P/N 60-162-01)

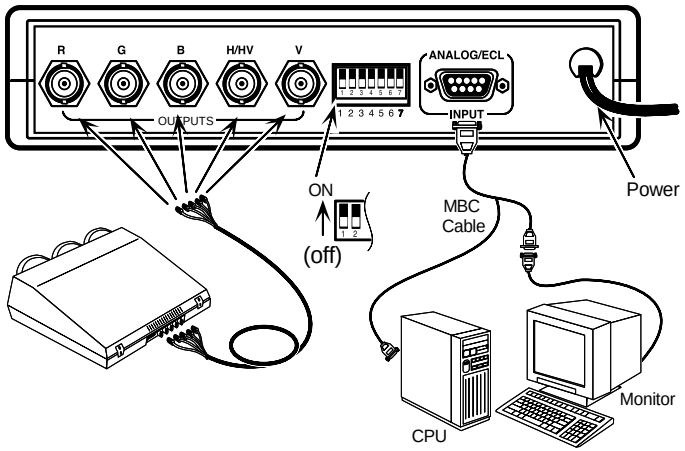
Description

The RGB 116*p* has a Video Bandwidth of 150 MHz and is compatible with any Analog computer system with a horizontal frequency range of 15-100 kHz (optimum 15-62 kHz). Using Extron MBC Cables, the RGB 116*p* is compatible with VGA, Super VGA, IBM PS/2, MAC, MAC Quadra, XGA, XGA-2, DEC and many others. Call Extron or refer to Extron's Handbook of Computer Interfacing for a complete listing.

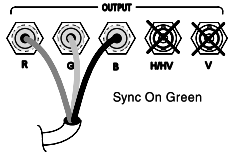
Installation (See illustration)

1. Turn off computer and its Monitor.

Rear Panel

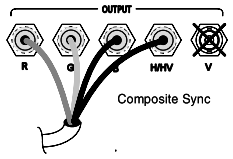


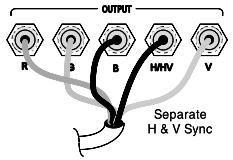
2. Disconnect the local Monitor cable from the computer and connect it to the MBC cable.
3. Connect MBC display output cable to "Analog/ECL" on the RGB 116*p*.
4. Connect the MBC's CPU cable to the computer's video output.
5. Apply power to the RGB 116*p*, the CPU and monitor.



Automatic Sync Output— The RGB 116*p* will automatically strip incoming Sync from the R, G & B video channels. Sync will output one of three ways, depending on the output termination.

- ***75 ohms on only R, G, & B channels, output is sync on Green.***
- ***75 ohms on only R, G, B, & H/HV channels, output is composite sync.***
- ***75 ohms on R, G, B, H/HV & V channels, output is separate H & V sync.***



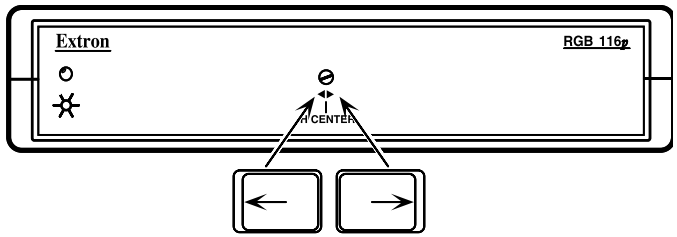


Operation

Power LED: Indicates if the RGB 116*p* is receiving power.

Horizontal Center Control: The H Center Control [◀▶] shifts the displayed image left or right.

Front Panel



Universal Input: Using **Extron's** MBC input cables allows viewing on both the computer monitor and large-screen projector/monitor at the same time.

Termination Switch: 75 ohm video termination for applications with no local monitor (Sw7, below).

RGB 116*p* with Laptops

When using the RGB 116*p* with laptops (or computers without monitors) a termination adapter must be used to simulate a monitor. If not, the computer/laptop may **not** boot up or may default to an undesired lower resolution. Extron has termination adapters for VGA, MAC, SUN and SGI. 75 ohm video termination is selectable via DIP switch control.

Switch#	Position	Function
1	ON	Does not allow Sync on Green
	OFF	Normal-Automatic Sync Output Detection
2	ON	Removes serration pulses
	OFF	Normal-serration pulses passed through
3	ON	Video Gain Boost (x1.4)
	OFF	Video Gain Unity (x1.0)
4	ON	Negative Sync at all times
	OFF	Normal-Sync output polarity tracking
5	ON	No Sync Processing (disables center control)
	OFF	Normal-Sync Processing
6	ON	Separate H and V Sync at all times
	OFF	Normal - Automatic Sync output selection
7	ON	75 ohm Input termination (no local monitor)
	OFF	High Z Input termination (with local monitor)